



(a)(2i) Fail Initial

From 1/1/2014 to 12/31/2014

All Vehicles Model Year	A			T			O			B			C			Total		
	Test Count	ASM Fail Count	% Fail	Test Count	TSI Fail Count	% Fail	Test Count	OBD Fail Count	% Fail	Test Count	OBD+ ASM Fail Count	% Fail	Test Count	OBD+ TSI Fail Count	% Fail			
1968	1	1	100.0%	1	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	2	1	50.0%
1969	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1970	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1971	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1972	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1973	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1974	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1975	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1976	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1977	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1978	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1979	0	0	0.0%	1	1	100.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	1	1	100.0%
1980	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1981	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1982	2	1	50.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	2	1	50.0%
1983	3	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	3	0	0.0%
1984	3	1	33.3%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	3	1	33.3%
1985	2	1	50.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	2	1	50.0%
1986	17	6	35.3%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	17	6	35.3%
1987	38	6	15.8%	1	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	39	6	15.4%
1988	133	23	17.3%	4	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	137	23	16.8%
1989	256	44	17.2%	15	6	40.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	271	50	18.5%
1990	1789	321	17.9%	84	21	25.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	1873	342	18.3%
1991	2434	468	19.2%	151	37	24.5%	0	0	0.0%	0	0	0.0%	0	0	0.0%	2585	505	19.5%
1992	2845	480	16.9%	217	38	17.5%	0	0	0.0%	0	0	0.0%	0	0	0.0%	3062	518	16.9%
1993	4260	679	15.9%	329	56	17.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	4589	735	16.0%
1994	6324	957	15.1%	533	74	13.9%	0	0	0.0%	0	0	0.0%	0	0	0.0%	6857	1031	15.0%
1995	7710	997	12.9%	855	90	10.5%	0	0	0.0%	0	0	0.0%	0	0	0.0%	8565	1087	12.7%
1996	0	0	0.0%	135	21	15.6%	9335	759	8.1%	724	204	28.2%	122	17	13.9%	10316	1001	9.7%
1997	0	0	0.0%	234	35	15.0%	13034	1090	8.4%	477	135	28.3%	11	4	36.4%	13756	1264	9.2%
1998	0	0	0.0%	227	38	16.7%	18949	1377	7.3%	450	89	19.8%	60	14	23.3%	19686	1518	7.7%
1999	0	0	0.0%	389	44	11.3%	22038	1708	7.8%	1	0	0.0%	0	0	0.0%	22428	1752	7.8%
2000	1	0	0.0%	667	62	9.3%	33054	2460	7.4%	0	0	0.0%	0	0	0.0%	33722	2522	7.5%
2001	0	0	0.0%	600	34	5.7%	30083	2362	7.9%	3	0	0.0%	0	0	0.0%	30686	2396	7.8%
2002	0	0	0.0%	795	46	5.8%	43457	2615	6.0%	0	0	0.0%	0	0	0.0%	44252	2661	6.0%
2003	0	0	0.0%	761	43	5.7%	40959	2285	5.6%	1	0	0.0%	0	0	0.0%	41721	2328	5.6%
2004	1	1	100.0%	732	39	5.3%	59195	2369	4.0%	3	1	33.3%	0	0	0.0%	59931	2410	4.0%
2005	4	0	0.0%	101	4	4.0%	48923	1895	3.9%	3	1	33.3%	0	0	0.0%	49031	1900	3.9%
2006	2	0	0.0%	229	3	1.3%	65372	1893	2.9%	0	0	0.0%	1	0	0.0%	65604	1896	2.9%
2007	0	0	0.0%	0	0	0.0%	54411	1263	2.3%	5	1	20.0%	1	0	0.0%	54417	1264	2.3%
2008	1	0	0.0%	0	0	0.0%	64299	910	1.4%	0	0	0.0%	0	0	0.0%	64300	910	1.4%
2009	0	0	0.0%	0	0	0.0%	39091	465	1.2%	1	0	0.0%	1	0	0.0%	39093	465	1.2%
2010	0	0	0.0%	1	0	0.0%	64213	393	0.6%	0	0	0.0%	0	0	0.0%	64214	393	0.6%
2011	0	0	0.0%	0	0	0.0%	56381	279	0.5%	0	0	0.0%	0	0	0.0%	56381	279	0.5%
2012	0	0	0.0%	0	0	0.0%	90929	350	0.4%	2	0	0.0%	0	0	0.0%	90931	350	0.4%
2013	0	0	0.0%	0	0	0.0%	48006	101	0.2%	0	0	0.0%	1	0	0.0%	48007	101	0.2%
2014	0	0	0.0%	0	0	0.0%	11653	18	0.2%	1	0	0.0%	0	0	0.0%	11654	18	0.2%
2015	0	0	0.0%	0	0	0.0%	640	0	0.0%	0	0	0.0%	0	0	0.0%	640	0	0.0%



(a)(2i) Fail Initial

From 1/1/2014 to 12/31/2014

Passenger Model Year	A			T			O			B			C			Total		
	Test Count	ASM Fail Count	% Fail	Test Count	TSI Fail Count	% Fail	Test Count	OBD Fail Count	% Fail	Test Count	OBD+ ASM Fail Count	% Fail	Test Count	OBD+ TSI Fail Count	% Fail			
1968	1	1	100.0%	1	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	2	1	50.0%
1969	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1970	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1971	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1972	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1973	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1974	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1975	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1976	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1977	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1978	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1979	0	0	0.0%	1	1	100.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	1	1	100.0%
1980	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1981	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1982	2	1	50.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	2	1	50.0%
1983	2	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	2	0	0.0%
1984	2	1	50.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	2	1	50.0%
1985	1	1	100.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	1	1	100.0%
1986	13	4	30.8%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	13	4	30.8%
1987	21	5	23.8%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	21	5	23.8%
1988	51	10	19.6%	2	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	53	10	18.9%
1989	134	21	15.7%	7	2	28.6%	0	0	0.0%	0	0	0.0%	0	0	0.0%	141	23	16.3%
1990	1210	209	17.3%	33	7	21.2%	0	0	0.0%	0	0	0.0%	0	0	0.0%	1243	216	17.4%
1991	1688	278	16.5%	90	20	22.2%	0	0	0.0%	0	0	0.0%	0	0	0.0%	1778	298	16.8%
1992	2011	323	16.1%	120	17	14.2%	0	0	0.0%	0	0	0.0%	0	0	0.0%	2131	340	16.0%
1993	2771	373	13.5%	180	27	15.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	2951	400	13.6%
1994	4060	505	12.4%	236	43	18.2%	0	0	0.0%	0	0	0.0%	0	0	0.0%	4296	548	12.8%
1995	5131	530	10.3%	437	31	7.1%	0	0	0.0%	0	0	0.0%	0	0	0.0%	5568	561	10.1%
1996	0	0	0.0%	1	0	0.0%	5846	424	7.3%	552	148	26.8%	121	17	14.0%	6520	589	9.0%
1997	0	0	0.0%	4	1	25.0%	7957	613	7.7%	365	100	27.4%	10	4	40.0%	8336	718	8.6%
1998	0	0	0.0%	3	0	0.0%	11645	836	7.2%	446	87	19.5%	60	14	23.3%	12154	937	7.7%
1999	0	0	0.0%	4	0	0.0%	13408	1047	7.8%	0	0	0.0%	0	0	0.0%	13412	1047	7.8%
2000	1	0	0.0%	2	0	0.0%	19452	1503	7.7%	0	0	0.0%	0	0	0.0%	19455	1503	7.7%
2001	0	0	0.0%	0	0	0.0%	17542	1316	7.5%	3	0	0.0%	0	0	0.0%	17545	1316	7.5%
2002	0	0	0.0%	1	0	0.0%	23777	1421	6.0%	0	0	0.0%	0	0	0.0%	23778	1421	6.0%
2003	0	0	0.0%	0	0	0.0%	22680	1231	5.4%	1	0	0.0%	0	0	0.0%	22681	1231	5.4%
2004	1	1	100.0%	5	0	0.0%	28344	1128	4.0%	2	0	0.0%	0	0	0.0%	28352	1129	4.0%
2005	4	0	0.0%	4	0	0.0%	25598	1027	4.0%	1	0	0.0%	0	0	0.0%	25607	1027	4.0%
2006	2	0	0.0%	1	0	0.0%	34535	1029	3.0%	0	0	0.0%	1	0	0.0%	34539	1029	3.0%
2007	0	0	0.0%	0	0	0.0%	31048	693	2.2%	3	0	0.0%	0	0	0.0%	31051	693	2.2%
2008	1	0	0.0%	0	0	0.0%	35190	490	1.4%	0	0	0.0%	0	0	0.0%	35191	490	1.4%
2009	0	0	0.0%	0	0	0.0%	26127	286	1.1%	1	0	0.0%	1	0	0.0%	26129	286	1.1%
2010	0	0	0.0%	1	0	0.0%	36145	207	0.6%	0	0	0.0%	0	0	0.0%	36146	207	0.6%
2011	0	0	0.0%	0	0	0.0%	30319	173	0.6%	0	0	0.0%	0	0	0.0%	30319	173	0.6%
2012	0	0	0.0%	0	0	0.0%	52009	217	0.4%	1	0	0.0%	0	0	0.0%	52010	217	0.4%
2013	0	0	0.0%	0	0	0.0%	27790	68	0.2%	0	0	0.0%	1	0	0.0%	27791	68	0.2%
2014	0	0	0.0%	0	0	0.0%	6300	7	0.1%	1	0	0.0%	0	0	0.0%	6301	7	0.1%
2015	0	0	0.0%	0	0	0.0%	318	0	0.0%	0	0	0.0%	0	0	0.0%	318	0	0.0%



(a)(2i) Fail Initial

From 1/1/2014 to 12/31/2014

LD Truck Model Year	A			T			O			B			C			Total		
	Test Count	ASM Fail Count	% Fail	Test Count	TSI Fail Count	% Fail	Test Count	OBD Fail Count	% Fail	Test Count	OBD+ ASM Fail Count	% Fail	Test Count	OBD+ TSI Fail Count	% Fail			
1968	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1969	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1970	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1971	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1972	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1973	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1974	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1975	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1976	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1977	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1978	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1979	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1980	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1981	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1982	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1983	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1984	1	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	1	0	0.0%
1985	1	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	1	0	0.0%
1986	4	2	50.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	4	2	50.0%
1987	16	1	6.3%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	16	1	6.3%
1988	79	13	16.5%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	79	13	16.5%
1989	107	17	15.9%	2	1	50.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	109	18	16.5%
1990	445	86	19.3%	6	2	33.3%	0	0	0.0%	0	0	0.0%	0	0	0.0%	451	88	19.5%
1991	639	166	26.0%	28	6	21.4%	0	0	0.0%	0	0	0.0%	0	0	0.0%	667	172	25.8%
1992	662	127	19.2%	21	1	4.8%	0	0	0.0%	0	0	0.0%	0	0	0.0%	683	128	18.7%
1993	1167	241	20.7%	65	10	15.4%	0	0	0.0%	0	0	0.0%	0	0	0.0%	1232	251	20.4%
1994	1714	354	20.7%	97	6	6.2%	0	0	0.0%	0	0	0.0%	0	0	0.0%	1811	360	19.9%
1995	1806	350	19.4%	146	15	10.3%	0	0	0.0%	0	0	0.0%	0	0	0.0%	1952	365	18.7%
1996	0	0	0.0%	0	0	0.0%	2579	245	9.5%	171	56	32.7%	1	0	0.0%	2751	301	10.9%
1997	0	0	0.0%	3	0	0.0%	3887	358	9.2%	112	35	31.3%	1	0	0.0%	4003	393	9.8%
1998	0	0	0.0%	1	0	0.0%	5653	384	6.8%	4	2	50.0%	0	0	0.0%	5658	386	6.8%
1999	0	0	0.0%	0	0	0.0%	6044	494	8.2%	1	0	0.0%	0	0	0.0%	6045	494	8.2%
2000	0	0	0.0%	2	0	0.0%	10204	732	7.2%	0	0	0.0%	0	0	0.0%	10206	732	7.2%
2001	0	0	0.0%	1	0	0.0%	9149	772	8.4%	0	0	0.0%	0	0	0.0%	9150	772	8.4%
2002	0	0	0.0%	0	0	0.0%	14514	869	6.0%	0	0	0.0%	0	0	0.0%	14514	869	6.0%
2003	0	0	0.0%	0	0	0.0%	12544	675	5.4%	0	0	0.0%	0	0	0.0%	12544	675	5.4%
2004	0	0	0.0%	2	0	0.0%	21399	814	3.8%	1	1	100.0%	0	0	0.0%	21402	815	3.8%
2005	0	0	0.0%	0	0	0.0%	16350	611	3.7%	2	1	50.0%	0	0	0.0%	16352	612	3.7%
2006	0	0	0.0%	0	0	0.0%	21159	524	2.5%	0	0	0.0%	0	0	0.0%	21159	524	2.5%
2007	0	0	0.0%	0	0	0.0%	15628	310	2.0%	2	1	50.0%	1	0	0.0%	15631	311	2.0%
2008	0	0	0.0%	0	0	0.0%	17198	185	1.1%	0	0	0.0%	0	0	0.0%	17198	185	1.1%
2009	0	0	0.0%	0	0	0.0%	8449	96	1.1%	0	0	0.0%	0	0	0.0%	8449	96	1.1%
2010	0	0	0.0%	0	0	0.0%	18597	104	0.6%	0	0	0.0%	0	0	0.0%	18597	104	0.6%
2011	0	0	0.0%	0	0	0.0%	15516	53	0.3%	0	0	0.0%	0	0	0.0%	15516	53	0.3%
2012	0	0	0.0%	0	0	0.0%	23614	81	0.3%	1	0	0.0%	0	0	0.0%	23615	81	0.3%
2013	0	0	0.0%	0	0	0.0%	12958	20	0.2%	0	0	0.0%	0	0	0.0%	12958	20	0.2%
2014	0	0	0.0%	0	0	0.0%	2985	3	0.1%	0	0	0.0%	0	0	0.0%	2985	3	0.1%
2015	0	0	0.0%	0	0	0.0%	215	0	0.0%	0	0	0.0%	0	0	0.0%	215	0	0.0%
Totals:	6641	1357	20.4%	374	41	11.0%	238642	7330	3.1%	294	96	32.7%	3	0	0.0%	245954	8824	3.6%



(a)(2i) Fail Initial

From 1/1/2014 to 12/31/2014

MD Truck Model Year	A			T			O			B			C			Total		
	Test Count	ASM Fail Count	% Fail	Test Count	TSI Fail Count	% Fail	Test Count	OBD Fail Count	% Fail	Test Count	OBD+ ASM Fail Count	% Fail	Test Count	OBD+ TSI Fail Count	% Fail	Test Count	Fail Count	% Fail
1968	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1969	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1970	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1971	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1972	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1973	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1974	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1975	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1976	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1977	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1978	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1979	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1980	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1981	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1982	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1983	1	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	1	0	0.0%
1984	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1985	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1986	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1987	1	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	1	0	0.0%
1988	3	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	3	0	0.0%
1989	15	6	40.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	15	6	40.0%
1990	134	26	19.4%	3	1	33.3%	0	0	0.0%	0	0	0.0%	0	0	0.0%	137	27	19.7%
1991	107	24	22.4%	13	4	30.8%	0	0	0.0%	0	0	0.0%	0	0	0.0%	120	28	23.3%
1992	172	30	17.4%	19	6	31.6%	0	0	0.0%	0	0	0.0%	0	0	0.0%	191	36	18.8%
1993	322	65	20.2%	25	4	16.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	347	69	19.9%
1994	550	98	17.8%	59	8	13.6%	0	0	0.0%	0	0	0.0%	0	0	0.0%	609	106	17.4%
1995	773	117	15.1%	57	6	10.5%	0	0	0.0%	0	0	0.0%	0	0	0.0%	830	123	14.8%
1996	0	0	0.0%	0	0	0.0%	848	84	9.9%	1	0	0.0%	0	0	0.0%	849	84	9.9%
1997	0	0	0.0%	1	0	0.0%	1095	107	9.8%	0	0	0.0%	0	0	0.0%	1096	107	9.8%
1998	0	0	0.0%	0	0	0.0%	1566	147	9.4%	0	0	0.0%	0	0	0.0%	1566	147	9.4%
1999	0	0	0.0%	0	0	0.0%	2446	159	6.5%	0	0	0.0%	0	0	0.0%	2446	159	6.5%
2000	0	0	0.0%	0	0	0.0%	3218	199	6.2%	0	0	0.0%	0	0	0.0%	3218	199	6.2%
2001	0	0	0.0%	1	0	0.0%	3165	243	7.7%	0	0	0.0%	0	0	0.0%	3166	243	7.7%
2002	0	0	0.0%	1	0	0.0%	4931	297	6.0%	0	0	0.0%	0	0	0.0%	4932	297	6.0%
2003	0	0	0.0%	1	0	0.0%	5303	341	6.4%	0	0	0.0%	0	0	0.0%	5304	341	6.4%
2004	0	0	0.0%	23	0	0.0%	8585	384	4.5%	0	0	0.0%	0	0	0.0%	8608	384	4.5%
2005	0	0	0.0%	0	0	0.0%	6051	219	3.6%	0	0	0.0%	0	0	0.0%	6051	219	3.6%
2006	0	0	0.0%	0	0	0.0%	8220	272	3.3%	0	0	0.0%	0	0	0.0%	8220	272	3.3%
2007	0	0	0.0%	0	0	0.0%	6922	214	3.1%	0	0	0.0%	0	0	0.0%	6922	214	3.1%
2008	0	0	0.0%	0	0	0.0%	10903	202	1.9%	0	0	0.0%	0	0	0.0%	10903	202	1.9%
2009	0	0	0.0%	0	0	0.0%	4097	75	1.8%	0	0	0.0%	0	0	0.0%	4097	75	1.8%
2010	0	0	0.0%	0	0	0.0%	8567	66	0.8%	0	0	0.0%	0	0	0.0%	8567	66	0.8%
2011	0	0	0.0%	0	0	0.0%	9704	38	0.4%	0	0	0.0%	0	0	0.0%	9704	38	0.4%
2012	0	0	0.0%	0	0	0.0%	13874	41	0.3%	0	0	0.0%	0	0	0.0%	13874	41	0.3%
2013	0	0	0.0%	0	0	0.0%	6735	10	0.1%	0	0	0.0%	0	0	0.0%	6735	10	0.1%
2014	0	0	0.0%	0	0	0.0%	2197	8	0.4%	0	0	0.0%	0	0	0.0%	2197	8	0.4%
2015	0	0	0.0%	0	0	0.0%	101	0	0.0%	0	0	0.0%	0	0	0.0%	101	0	0.0%
Totals:	2078	366	17.6%	203	29	14.3%	108528	3106	2.9%	1	0	0.0%	0	0	0.00%	110810	3501	3.2%



(a)(2i) Fail Initial

From 1/1/2014 to 12/31/2014

HD Truck Model Year	A			T			O			B			C			Total		
	Test Count	ASM Fail Count	% Fail	Test Count	TSI Fail Count	% Fail	Test Count	OBD Fail Count	% Fail	Test Count	OBD+ ASM Fail Count	% Fail	Test Count	OBD+ TSI Fail Count	% Fail	Test Count	Fail Count	% Fail
1968	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1969	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1970	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1971	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1972	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1973	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1974	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1975	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1976	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1977	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1978	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1979	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1980	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1981	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1982	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1983	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1984	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1985	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1986	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
1987	0	0	0.0%	1	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	1	0	0.0%
1988	0	0	0.0%	2	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	2	0	0.0%
1989	0	0	0.0%	6	3	50.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	6	3	50.0%
1990	0	0	0.0%	42	11	26.2%	0	0	0.0%	0	0	0.0%	0	0	0.0%	42	11	26.2%
1991	0	0	0.0%	20	7	35.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%	20	7	35.0%
1992	0	0	0.0%	57	14	24.6%	0	0	0.0%	0	0	0.0%	0	0	0.0%	57	14	24.6%
1993	0	0	0.0%	59	15	25.4%	0	0	0.0%	0	0	0.0%	0	0	0.0%	59	15	25.4%
1994	0	0	0.0%	141	17	12.1%	0	0	0.0%	0	0	0.0%	0	0	0.0%	141	17	12.1%
1995	0	0	0.0%	215	38	17.7%	0	0	0.0%	0	0	0.0%	0	0	0.0%	215	38	17.7%
1996	0	0	0.0%	134	21	15.7%	62	6	9.7%	0	0	0.0%	0	0	0.0%	196	27	13.8%
1997	0	0	0.0%	226	34	15.0%	95	12	12.6%	0	0	0.0%	0	0	0.0%	321	46	14.3%
1998	0	0	0.0%	223	38	17.0%	85	10	11.8%	0	0	0.0%	0	0	0.0%	308	48	15.6%
1999	0	0	0.0%	385	44	11.4%	140	8	5.7%	0	0	0.0%	0	0	0.0%	525	52	9.9%
2000	0	0	0.0%	663	62	9.4%	180	26	14.4%	0	0	0.0%	0	0	0.0%	843	88	10.4%
2001	0	0	0.0%	598	34	5.7%	227	31	13.7%	0	0	0.0%	0	0	0.0%	825	65	7.9%
2002	0	0	0.0%	793	46	5.8%	235	28	11.9%	0	0	0.0%	0	0	0.0%	1028	74	7.2%
2003	0	0	0.0%	760	43	5.7%	432	38	8.8%	0	0	0.0%	0	0	0.0%	1192	81	6.8%
2004	0	0	0.0%	702	39	5.6%	867	43	5.0%	0	0	0.0%	0	0	0.0%	1569	82	5.2%
2005	0	0	0.0%	97	4	4.1%	924	38	4.1%	0	0	0.0%	0	0	0.0%	1021	42	4.1%
2006	0	0	0.0%	228	3	1.3%	1458	68	4.7%	0	0	0.0%	0	0	0.0%	1686	71	4.2%
2007	0	0	0.0%	0	0	0.0%	813	46	5.7%	0	0	0.0%	0	0	0.0%	813	46	5.7%
2008	0	0	0.0%	0	0	0.0%	1008	33	3.3%	0	0	0.0%	0	0	0.0%	1008	33	3.3%
2009	0	0	0.0%	0	0	0.0%	418	8	1.9%	0	0	0.0%	0	0	0.0%	418	8	1.9%
2010	0	0	0.0%	0	0	0.0%	904	16	1.8%	0	0	0.0%	0	0	0.0%	904	16	1.8%
2011	0	0	0.0%	0	0	0.0%	842	15	1.8%	0	0	0.0%	0	0	0.0%	842	15	1.8%
2012	0	0	0.0%	0	0	0.0%	1432	11	0.8%	0	0	0.0%	0	0	0.0%	1432	11	0.8%
2013	0	0	0.0%	0	0	0.0%	523	3	0.6%	0	0	0.0%	0	0	0.0%	523	3	0.6%
2014	0	0	0.0%	0	0	0.0%	171	0	0.0%	0	0	0.0%	0	0	0.0%	171	0	0.0%
2015	0	0	0.0%	0	0	0.0%	6	0	0.0%	0	0	0.0%	0	0	0.0%	6	0	0.0%
Totals:	0	0	0.00%	5352	473	8.8%	10822	440	4.1%	0	0	0.00%	0	0	0.00%	16174	913	5.60%



